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DATASHEET

FLUO 3-AM

Product overview

Name	FLUO 3-AM
Cat No	HB0772
Biological action	Dyes & stains
Purity	>85%
Description	Cell permeable Ca^{2+} sensitive fluorescent indicator

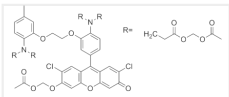
Biological Data

Biological description	Cell permeable Ca^{2+} sensitive fluorescent indicator ($K_d = 0.36 \mu\text{M}$). Metabolized by cytoplasmic esterases into FLUO-3. For optimal cell loading, F-127 is available either as a 10% solution in water (HB16503) and 20% solution in DMSO (HB9631).
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Solubility & Handling

Solubility overview	Soluble in DMSO (0.9mg/ml) or water
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight	1129.85
Chemical structure	
Molecular Formula	$\text{C}_{51}\text{H}_{50}\text{Cl}_2\text{N}_2\text{O}_{23}$
CAS Number	121714-22-5
PubChem identifier	5086914
SMILES	<chem>CC1=CC(=C(C=C1)N(CC(=O)OCOC(=O)C)CC(=O)OCOC(=O)C)OCCOC2=C(C=CC(=C2)C3=C4C=C(C(C(=O)C=C4OC5=CC(=C(C=C5)Cl)OCOC(=O)C)Cl)N(CC(=O)OCOC(=O)C)CC(=O)OCOC(=O)C</chem>

References

Loading and localization of Fluo-3 and Fluo-3/AM calcium indicators in sinapis alba root tissue.

Tretyn A *et al* (1997) Folia Histochem Cytobiol 35(1)

PubMedID [9090510](#)

Functional fluo-3/AM assay on P-glycoprotein transport activity in L1210/VCR cells by confocal microscopy.

Orlicki *et al* (2004) Gen Physiol Biophys 23(3)

PubMedID [15638123](#)

Measurement of the dissociation constant of Fluo-3 for Ca²⁺ in isolated rabbit cardiomyocytes using Ca²⁺ wave characteristics.

Loughrey CM *et al* (2003) Cell Calcium 34(1)
PubMedID [12767887](#)
